**Index of Claims** 

| Application/Control No |
|------------------------|
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10/632,151

Examiner

Ron Schwadron, Ph.D.

Applicant(s)/Patent under Reexamination

WAHL ET AL.

Art Unit

1644

| <b>√</b> | Rejected |
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| II       | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
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| ı | Interference |

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| Final                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Original                                                                                                                                                 | 18                 | 1            | l             |                                                  | 1              | 1              |                                              | 1                  |                 |
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| $oxed{oxed}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3#                                                                                                                                                       | Ш                  |              | _             | L                                                | Ĺ              |                |                                              | $oxedsymbol{oxed}$ | Ш               |
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| Date     |          |          |              |          | 1            | Claim    |              |                                                                            | Date          |          |                                              |          |               |          |          |                    |          |
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| Т        |          |          |              |          | Г            | 1 1      |              |                                                                            | $\overline{}$ |          | Г                                            |          |               |          |          |                    |          |
|          |          |          |              |          |              | l        | <del>-</del> | Original                                                                   | 3/30/07       | 1        |                                              |          |               |          |          |                    |          |
| - 1      |          |          |              | 1        |              |          | Final        | اقِ                                                                        | 2             | İ        | l                                            |          |               |          |          | l                  |          |
| - 1      |          |          | 1            | 1        |              | 1 1      | u.           | Ιŏ                                                                         | 1             |          | l                                            |          |               |          |          | l                  |          |
| 4        |          |          | _            | ┡        | _            | 1 1      |              |                                                                            | -             | <u> </u> | <u> </u>                                     | <u> </u> | <u> </u>      | <u> </u> | <u> </u> | <u> </u>           | L-       |
| _        | _        | _        | ᆫ            | <u> </u> | <u> </u>     | ] ]      |              | <u>51</u>                                                                  | <u>_</u>      | 匚        | <u> </u>                                     | <u> </u> | L             | L        | _        | _                  |          |
|          |          |          | L            |          |              | ] [      |              | \$2                                                                        |               | _        | _                                            |          |               |          |          |                    |          |
|          |          | L        |              | <u></u>  |              |          |              | <b>4</b> 3                                                                 |               |          |                                              |          |               | _        |          |                    |          |
|          |          | !        |              |          |              | ] [      |              | 54                                                                         |               | Γ        |                                              | -        | Г             | Π        |          |                    |          |
|          |          |          | ·            | Г        | П            | 1 1      |              | 55                                                                         |               |          |                                              |          |               |          | Г        |                    |          |
|          |          |          |              | ऻ        | Г            | 1 1      |              | 56                                                                         | <b>—</b>      |          |                                              |          |               |          |          | $\vdash$           |          |
| 7        |          |          |              | H        | -            | i i      |              | 57                                                                         | _             |          | $\vdash$                                     | _        | $\vdash$      | _        | $\vdash$ | $\vdash$           | Н        |
| $\dashv$ | $\neg$   |          | $\vdash$     | ┢        | H            | 1 1      |              | ᇸ                                                                          | -             |          | Н                                            | -        | _             | -        | ┢        | ┝                  | Н        |
| +        | -        |          | -            | ┢        | ┢            | 1 1      |              | 136                                                                        | -             | $\vdash$ | $\vdash$                                     | $\vdash$ | -             | -        | -        | ┢                  | Н        |
| ┰        |          |          | ┝            | ┢        | ├            | 1 1      |              | 3                                                                          |               | $\vdash$ | $\vdash$                                     | $\vdash$ |               | ⊢        |          | ├                  | Н        |
| +        | ⊣        |          | -            | -        | ├—           | {        |              | 40                                                                         | $\vdash$      | $\vdash$ |                                              | ├        | -             | $\vdash$ | -        |                    | Н        |
| +        | 4        |          | ⊢            | ├-       | $\vdash$     |          |              | 51<br>52<br>53<br>55<br>55<br>55<br>57<br>58<br>59<br>60<br>61<br>62<br>65 | $\vdash$      | $\vdash$ | -                                            | <u> </u> | <u> </u>      | $\vdash$ | ⊢        |                    | Н        |
| +        | 4        |          | ├            | $\vdash$ | ⊢            |          |              | 4                                                                          | <u> </u>      | <u> </u> | <u> </u>                                     | -        | <u> </u>      | <u> </u> | <u> </u> | L_                 | Ш        |
| 4        | 4        |          | <u> </u>     | <u> </u> | <u> </u>     |          |              | 63                                                                         | <u> </u>      | $\vdash$ | _                                            |          | _             | _        | <u> </u> |                    | Ш        |
| $\perp$  | _        | _        | <u> </u>     | L        | L_           |          |              | 6₩                                                                         |               |          | _                                            | L        | L             | _        | L        | L                  | Ш        |
| $\perp$  |          |          | L_           |          | $oxed{oxed}$ | ] [      |              | 65                                                                         | 4             |          |                                              | L_       | _             | _        | L        | L                  |          |
|          |          |          | L            | L        |              | ] [      |              | 66                                                                         | $\prod$       |          |                                              | L        | L             | L        | L        |                    |          |
|          |          |          |              |          |              | ] [      |              | 67                                                                         | П             |          |                                              |          |               |          |          |                    |          |
|          |          |          |              | Г        |              | 1 [      |              | 68                                                                         | П             |          |                                              |          |               |          |          |                    |          |
|          |          |          |              | П        |              |          |              | 69                                                                         | Т             | _        |                                              |          | $\overline{}$ |          |          |                    |          |
| 1        |          | _        |              | T        | Т            | 1 1      |              | 69<br>70<br>71<br>72<br>73                                                 | T             |          |                                              |          |               |          |          |                    |          |
| $\top$   | ┪        | _        | _            | T        |              | 1 1      |              | 71                                                                         | H             | $\vdash$ |                                              |          | <u> </u>      |          | _        | -                  | H        |
| 十        |          | _        | ┪            | $\vdash$ | $\vdash$     | 1 1      | -            | 72                                                                         | H             | _        | $\vdash$                                     | _        |               |          | _        | _                  | $\vdash$ |
| ╅        | _        |          |              | H        | $\vdash$     | 1 1      |              | 73                                                                         | H             | _        | $\vdash$                                     | _        |               |          |          |                    | Н        |
| +        | -        | _        | <del> </del> |          | $\vdash$     | 1 1      |              | 74<br>75<br>76                                                             | Н             | $\vdash$ | _                                            |          |               |          | _        | $\vdash$           | Н        |
| +        | $\dashv$ | _        | -            |          | -            | łł       |              | 75                                                                         | Н             | -        | <u> —                                   </u> | -        | _             | H        | _        | _                  |          |
| ┿        | $\dashv$ |          | $\vdash$     | $\vdash$ | ┢            | H        |              | 76                                                                         | М             | _        | Н                                            |          | _             | _        | -        |                    | Н        |
| +        | -        | _        | <del> </del> | ⊢        | ⊢            | {        | _            | 7                                                                          | -             | _        |                                              | _        | _             |          | _        | _                  | $\vdash$ |
| ┰        | $\dashv$ |          | -            | ⊢        | ⊢            | {        |              | 70                                                                         | -             |          |                                              |          | _             | _        | _        | _                  | $\vdash$ |
| -+       | $\dashv$ |          | ⊢            |          | ⊢            | } }      |              | 78<br>79                                                                   | +             | _        |                                              | _        | _             | _        |          |                    |          |
| +        | 4        |          | _            | _        | H            | H        |              | 79                                                                         | Щ             |          | _                                            |          |               |          | _        | $\vdash$           | $\Box$   |
| -        | 4        |          | _            | <u> </u> | _            |          |              | 80                                                                         | 1             |          | Щ                                            |          |               |          | _        |                    |          |
| 4        | _        |          | _            | _        | L            |          |              | 81                                                                         | Ш             |          |                                              |          |               |          |          |                    |          |
| 4.       | 4        |          |              | _        |              |          |              | 82                                                                         | Ш             |          |                                              |          |               |          |          |                    |          |
| 4        | 4        |          |              | L        | L            |          |              | 83                                                                         | Y             |          |                                              |          |               |          |          |                    |          |
| $\perp$  | _        |          |              |          | Ш            | l        |              | 81<br>82<br>83<br>84<br>85<br>86                                           |               |          |                                              |          |               |          |          |                    |          |
| $\perp$  | $\sqcup$ |          |              | L        | Ш            | L        |              | 85                                                                         | Ш             |          |                                              |          |               |          |          |                    |          |
| $\perp$  | _        |          | _            |          |              |          |              | В6                                                                         |               |          |                                              |          |               |          |          |                    |          |
|          | ⅃        | ]        |              |          |              |          | ]            | <b>B</b> 7                                                                 |               |          |                                              |          |               |          |          |                    |          |
|          |          |          |              |          |              |          |              | 88                                                                         |               |          |                                              |          |               |          |          |                    |          |
| $\int$   | _]       |          |              |          |              |          |              | 89                                                                         |               |          |                                              | $\neg$   |               |          |          |                    | $\neg$   |
|          | $\Box$   |          |              |          |              |          |              | 90                                                                         |               |          |                                              |          |               |          |          |                    | $\neg$   |
| Т        | 寸        |          |              |          |              |          |              | <u> </u>                                                                   |               |          |                                              |          |               |          |          |                    | $\dashv$ |
| $\top$   | ┪        |          |              |          |              |          |              | 92                                                                         | $\vdash$      |          | $\neg$                                       | $\dashv$ | $\dashv$      | $\neg$   | $\dashv$ | $\overline{\cdot}$ | $\dashv$ |
| $\top$   | 7        | $\neg$   |              | М        |              |          | _            | <u> </u>                                                                   | $\dashv$      | $\neg$   | -                                            | _        |               | $\dashv$ | $\neg$   |                    | $\dashv$ |
| +        | 7        | $\neg$   |              | $\vdash$ |              |          |              | gŭ.                                                                        | $\vdash$      | -1       | $\dashv$                                     | -        | -             |          | -        | $\dashv$           | $\dashv$ |
| +        | 寸        | -1       |              | Н        | -            |          |              | 96<br>98<br>98                                                             | $\dashv$      |          | $\dashv$                                     | $\dashv$ |               | -        | $\dashv$ | $\dashv$           | $\dashv$ |
| +        | +        | $\dashv$ | _            | $\vdash$ | $\vdash$     |          |              | 96                                                                         | Y             | -        |                                              | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ | -                  | $\dashv$ |
| ╅        | $\dashv$ | $\dashv$ |              |          | $\dashv$     | H        |              | 87                                                                         | 1             | $\dashv$ | {                                            | -        | -             |          |          | -                  | $\dashv$ |
| +        | +        |          |              | $\dashv$ | -            | F        |              | -3                                                                         | V             |          |                                              | $\dashv$ | -             | -        |          | -                  | -        |
| +        | +        | -        | -            | $\dashv$ | _            | <b> </b> | $\dashv$     | 90                                                                         | ¥             | <b>-</b> | -                                            |          |               | $\dashv$ | -        |                    |          |
| +        | $\dashv$ |          |              | $\vdash$ | $\dashv$     | H        | $\dashv$     | 99<br>100                                                                  | +             | -        |                                              |          |               |          |          | -                  |          |
|          |          |          |              |          | لـــا        | L        |              | 100                                                                        | N             |          |                                              |          |               |          |          |                    |          |

| Cl                                               | Π                                                    |               | -        | 1        | Dat      | <u>—</u> |              |              |          |                 |
|--------------------------------------------------|------------------------------------------------------|---------------|----------|----------|----------|----------|--------------|--------------|----------|-----------------|
|                                                  |                                                      | $\overline{}$ |          |          |          |          |              |              | Γ        | П               |
| <u> </u>                                         | Original                                             | ١٩            |          |          |          |          |              | 1            |          |                 |
| Final                                            | rig .                                                | 5             |          |          |          |          |              |              |          |                 |
|                                                  | 0                                                    | 3             |          |          |          |          |              |              |          |                 |
|                                                  | 101                                                  | F             |          |          |          |          |              |              |          | П               |
|                                                  | 101<br>102                                           | i             |          | П        | Г        | Г        |              |              |          | П               |
|                                                  | 103                                                  | П             |          |          |          |          |              | Т            |          |                 |
|                                                  | 104                                                  | П             |          |          | Т        |          |              | Г            |          |                 |
|                                                  | 103<br>104<br>105                                    | П             |          | Г        | Г        | Г        |              | Г            |          | П               |
|                                                  | 106                                                  | П             | Г        |          |          |          |              |              |          | П               |
|                                                  | 107                                                  | Π             |          |          |          | П        |              |              |          | П               |
|                                                  | 108                                                  | IL            |          |          |          |          | Г            |              |          |                 |
|                                                  | 106<br>107<br>108<br>109                             | $\mathbb{L}$  |          |          |          |          |              |              |          |                 |
|                                                  | 110                                                  |               |          |          |          |          |              |              |          |                 |
|                                                  | 111                                                  | 1             |          |          |          |          |              |              |          |                 |
|                                                  | 110<br>111<br>112<br>113                             |               |          |          |          | L        | Ĺ            |              | L        |                 |
|                                                  | 1/3                                                  |               |          | 匚        |          | L        |              | 匚            | L        |                 |
|                                                  | 104                                                  |               | <u>_</u> |          |          | _        |              |              |          |                 |
|                                                  | 115                                                  |               | <u> </u> |          |          | L        |              |              | $\Box$   |                 |
|                                                  | 16                                                   | _             | _        | _        | L        | _        | Ĺ            |              |          | $\Box$          |
|                                                  | 117<br>118<br>119<br>120<br>121<br>122<br>123<br>124 | <u> </u>      | _        | <u>_</u> |          | L_       |              | $\Box$       |          |                 |
|                                                  | 118                                                  | L             | L        | L        | _        |          |              | L            | L        |                 |
|                                                  | 119                                                  | <u>.</u>      |          |          | L        | _        | L            | _            |          | Ш               |
|                                                  | 120                                                  |               | _        | _        |          | 乚        | _            |              | _        | Ш               |
|                                                  | 12                                                   | _             | <u> </u> | L        |          | L        | <u> </u>     | _            | _        | Ш               |
|                                                  | 122                                                  | _             | _        | _        |          | _        | $oxed{oxed}$ | 匚            | <u> </u> | Ш               |
|                                                  | 123                                                  |               |          | _        | <u>_</u> | _        | L            | 匚            | L_       | Щ               |
|                                                  | 124                                                  |               |          | _        | _        |          | _            | _            | L        | Ш               |
|                                                  | 125                                                  | <u> </u>      |          | <u> </u> | <u>_</u> | <u> </u> | _            | <u> </u>     | _        | Ш               |
|                                                  | 126                                                  | _             | _        | <u> </u> | _        | _        |              | _            | _        | Ш               |
|                                                  | 127                                                  | _             | _        | <u> </u> |          | ļ        | _            |              | _        | Ш               |
|                                                  | 128                                                  | L             |          | L        |          | <u> </u> | _            | _            |          | Щ               |
|                                                  | 129                                                  |               | _        | <u> </u> | L_       | _        |              |              | _        |                 |
|                                                  | 130                                                  | _             | _        | _        |          |          | <u> </u>     |              | _        | Ш               |
|                                                  | 125<br>126<br>127<br>128<br>129<br>130<br>131<br>132 | $\vdash$      | <u> </u> | ├        | -        | ⊢        | <u> </u>     | <u> </u>     | L_       | Щ               |
|                                                  | 132                                                  | <u> </u>      | -        | $\vdash$ |          | <u> </u> | <u> </u>     | $\vdash$     | _        | Щ               |
|                                                  | 133<br>134                                           | $\vdash$      | <u> </u> | $\vdash$ |          | <u> </u> | <u> </u>     | <u> </u>     | <u> </u> | $\mid - \mid$   |
|                                                  | 134                                                  | H             | -        |          | <u> </u> | -        | <u> </u>     |              | $\vdash$ | Ы               |
|                                                  | 135                                                  | $\vdash$      | -        | $\vdash$ | L        | $\vdash$ |              | -            | _        | $\vdash \vdash$ |
|                                                  | 136<br>137                                           |               | -        | ├-       | -        | ⊢        |              | H            | $\vdash$ | $\vdash \vdash$ |
|                                                  | 138                                                  | $\vdash$      |          | -        | $\vdash$ | -        | -            |              | _        | $\vdash$        |
|                                                  | 139                                                  | $\vdash$      | -        | <u> </u> | -        | -        | -            | <del> </del> | $\vdash$ | Н               |
|                                                  | 140                                                  | $\vdash$      | -        | $\vdash$ | -        | $\vdash$ | -            | $\vdash$     | -        | $\vdash$        |
|                                                  | 141                                                  | Н             |          | $\vdash$ | -        | $\vdash$ |              | $\vdash$     |          |                 |
| -+                                               | 142                                                  | Н             | -        | $\vdash$ | -        | $\vdash$ | -            | $\vdash$     | $\vdash$ | $\vdash$        |
| $\dashv$                                         | 143                                                  | $\vdash$      |          | $\vdash$ | $\vdash$ | $\vdash$ | -            |              | $\vdash$ | $\vdash \vdash$ |
| <del>,                                    </del> | 144                                                  | -             |          | $\vdash$ | -        | <u> </u> |              |              | -        | $\dashv$        |
|                                                  | 145                                                  | -             | _        | $\vdash$ |          | H        |              | -            | Н        | $\dashv$        |
|                                                  | 146                                                  | $\dashv$      |          | Н        |          | Н        |              |              | $\vdash$ | $\dashv$        |
|                                                  | 147                                                  | $\dashv$      |          | $\vdash$ | -        | Н        | Н            | $\dashv$     | $\dashv$ | $\dashv$        |
|                                                  | 148                                                  | $\dashv$      |          | -        |          | Н        |              | $\dashv$     | $\vdash$ | $\dashv$        |
|                                                  | 149                                                  | -             | -        | -        |          | $\vdash$ |              | $\vdash$     | $\vdash$ | $\dashv$        |
|                                                  | 150                                                  | $\dashv$      | _        | $\vdash$ | -        | $\vdash$ | -            | -            | -        | $\dashv$        |
|                                                  | 150                                                  |               |          |          |          |          |              | $\Box$       |          |                 |